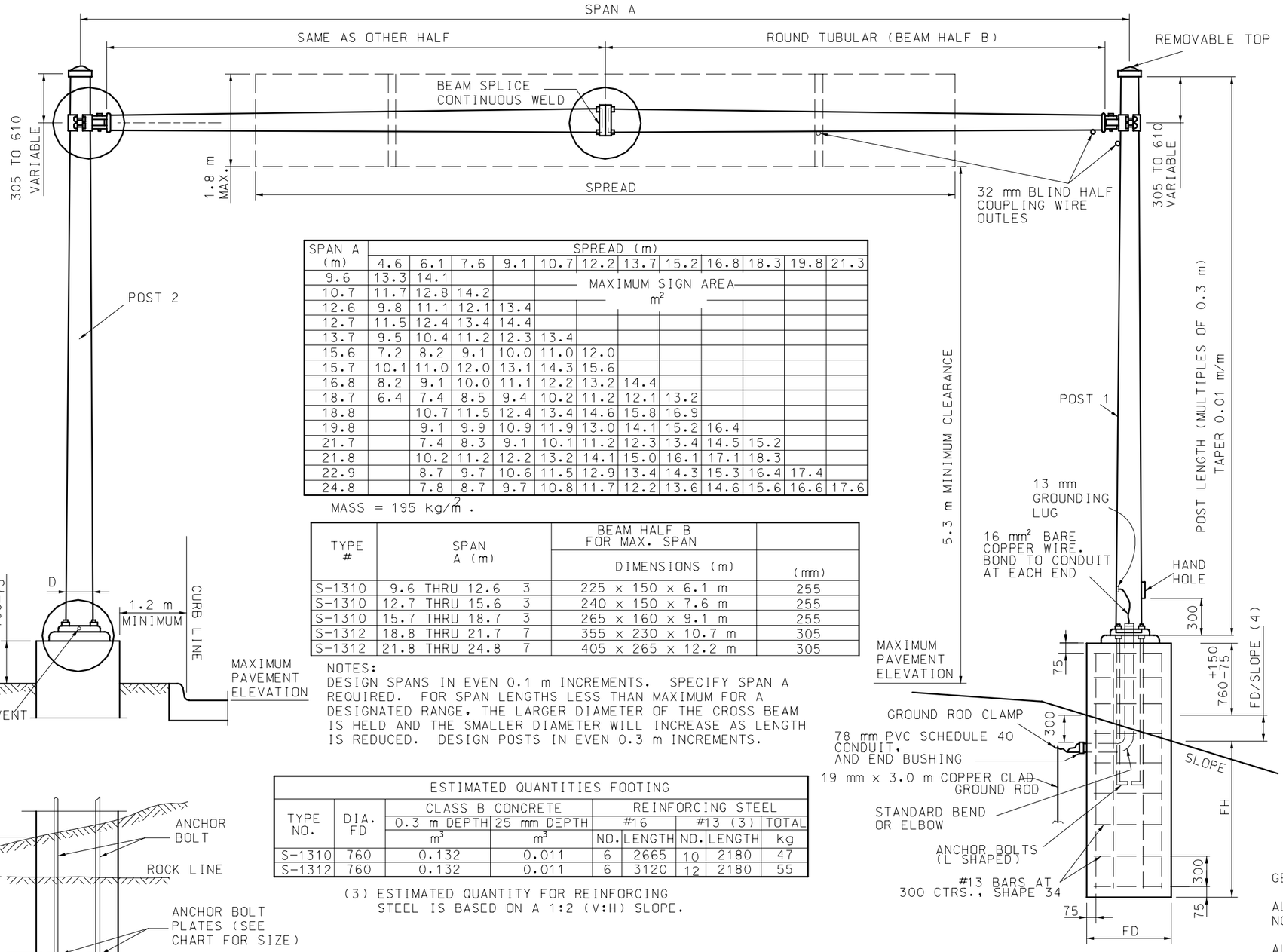


ELEVATION

SPAN A (m)	SPREAD (m) 4.6	6.1	7.6	9.1	10.7	12.2	13.7	15.2	16.8	18.3	19.8	21.3
9.6	13.3	14.1			MAXIMUM SIGN AREA m²							
10.7	11.7	12.8	14.2									
12.6	9.8	11.1	12.1	13.4								
12.7	11.5	12.4	13.4	14.4								
13.7	9.5	10.4	11.2	12.3	13.4							
15.6	7.2	8.2	9.1	10.0	11.0	12.0						
15.7	10.1	11.0	12.0	13.1	14.3	15.6						
16.8	8.2	9.1	10.0	11.1	12.2	13.2	14.4					
18.7	6.4	7.4	8.5	9.4	10.2	11.2	12.1	13.2				
18.8		10.7	11.5	12.4	13.4	14.6	15.8	16.9				
19.8		9.1	9.9	10.9	11.9	13.0	14.1	15.2	16.4			
21.7		7.4	8.3	9.1	10.1	11.2	12.3	13.4	14.5	15.2		
21.8		10.2	11.2	12.2	13.2	14.1	15.0	16.1	17.1	18.3		
22.9		8.7	9.7	10.6	11.5	12.9	13.4	14.3	15.3	16.4	17.4	
24.8		7.8	8.7	9.7	10.8	11.7	12.2	13.6	14.6	15.6	16.6	17.6

MASS = 195 kg/m² .

TYPE #	SPAN A (m)	BEAM HALF B FOR MAX. SPAN DIMENSIONS (m)	(mm)
S-1310	9.6 THRU 12.6 3	225 x 150 x 6.1 m	255
S-1310	12.7 THRU 15.6 3	240 x 150 x 7.6 m	255
S-1310	15.7 THRU 18.7 3	265 x 160 x 9.1 m	255
S-1312	18.8 THRU 21.7 7	355 x 230 x 10.7 m	305
S-1312	21.8 THRU 24.8 7	405 x 265 x 12.2 m	305

NOTES:
DESIGN SPANS IN EVEN 0.1 m INCREMENTS. SPECIFY SPAN A REQUIRED. FOR SPAN LENGTHS LESS THAN MAXIMUM FOR A DESIGNATED RANGE, THE LARGER DIAMETER OF THE CROSS BEAM IS HELD AND THE SMALLER DIAMETER WILL INCREASE AS LENGTH IS REDUCED. DESIGN POSTS IN EVEN 0.3 m INCREMENTS.

(4) EXAMPLE: IF SLOPE IS 1:6, THE DENOMINATOR IS 6

REINFORCEMENT PLACED SAME AS STANDARD FOOTING.
CONCRETE TO BE POURED TO EXCAVATED FACE OF ROCK.

MODIFIED FOOTING IN SOLID ROCK

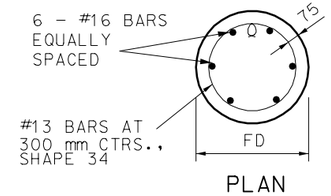
(2) NOT TO EXCEED 1525 mm FOR S-1310.
NOT TO EXCEED 1980 mm FOR S-1312.

ESTIMATED QUANTITIES FOOTING									
TYPE NO.	DIA. FD	CLASS B CONCRETE 0.3 m DEPTH m³	CLASS B CONCRETE 25 mm DEPTH m³	REINFORCING STEEL #16 NO.	#16 LENGTH	#13 (3) NO.	#13 (3) LENGTH	TOTAL kg
S-1310	760	0.132	0.011	6	2665	10	2180	47
S-1312	760	0.132	0.011	6	3120	12	2180	55

(3) ESTIMATED QUANTITY FOR REINFORCING STEEL IS BASED ON A 1:2 (V:H) SLOPE.

MODIFIED FOOTING IN SOLID ROCK		
TYPE NO.	ANCHOR BOLT (mm)	ANCHOR BOLT PLATE (mm)
S-1310	38 DIA.	90 x 90 x 20
S-1312	44 DIA.	90 x 90 x 20

(1) ANCHOR BOLT LENGTH AS REQUIRED



PLAN
FOOTINGS

GENERAL NOTES:

ALL DIMENSIONS SHOWN ARE IN mm UNLESS OTHERWISE NOTED.

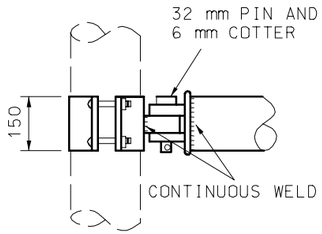
ALL SIGNS CENTERED VERTICALLY.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

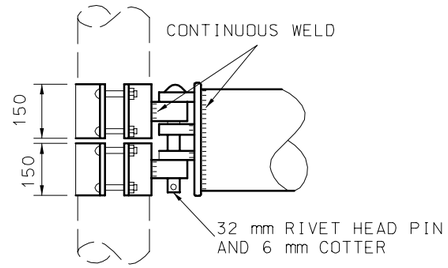
HIGHWAY SIGNING
TUBULAR SUPPORT STEEL - TYPE S

ONE TUBE

DATE:_____ EFFECTIVE: 04-01-2005 **M903.05H** 1/2

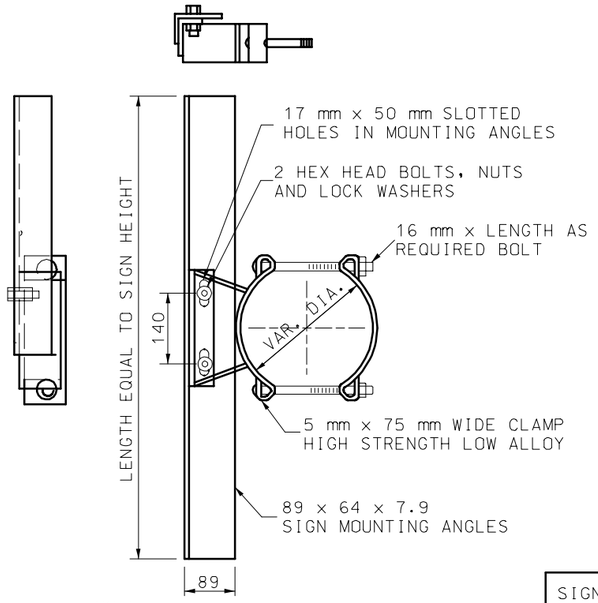


TUBE DIAMETER EQUAL TO
OR LESS THAN 265 mm
AT CENTER OF SPAN



TUBE DIAMETER GREATER THAN 265 mm
AT CENTER OF SPAN

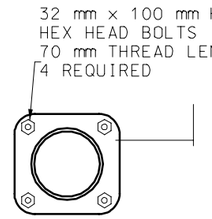
BEAM CLAMP DETAIL



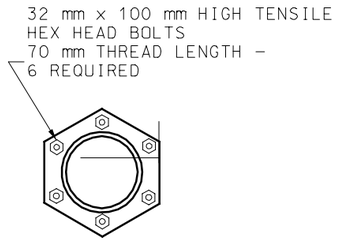
NOTE:
MINIMUM OF TWO BRACKETS ARE REQUIRED
FOR SIGNS OVER1050 mm IN LENGTH.

SIGN HEIGHT (m)	MAXIMUM METER OF SIGN WIDTH PER BRACKET
≤ 1.2	4.0
1.5	2.4
1.8	1.5

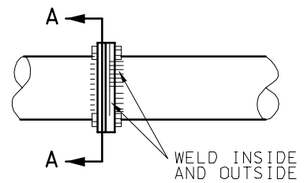
GALVANIZED SIGN BRACKET ASSEMBLY



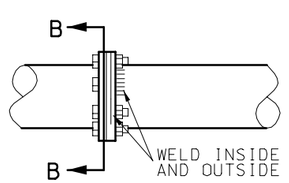
SECTION A–A



SECTION B–B



TUBE DIAMETER 240 mm
AND UNDER

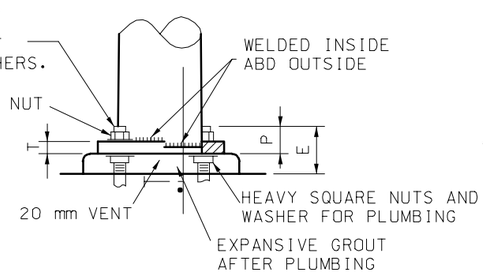


TUBE DIAMETER
OVER 240 mm

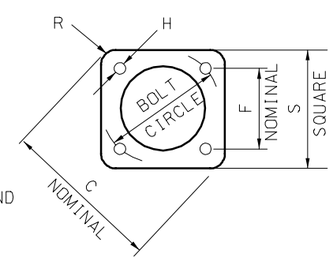
BEAM SPLICE DETAIL

POST BASE DIMENSIONS AND DATA												
TYPE NO.	BOLT CIRCLE	C	F	H	S	R	P	T	E	ANCHOR BOLT	FOOTING FH	FOOTING FD
S-1310	345	445	245	45	360	80	95	38	180	38 x 1525	1525	760
S-1312	405	535	285	55	430	95	115	50	190	44 x 2285	1980	760

ANCHOR BOLTS AS SPECIFIED.
THREAD UPPER PORTION E.
GALVANIZE ENTIRE LENGTH OF
BOLT AND ALL NUTS AND WASHERS.



ELEVATION



PLAN

POST BASE DETAILS

GENERAL NOTES:

ALL DIMENSIONS SHOWN ARE IN mm UNLESS OTHERWISE NOTED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

HIGHWAY SIGNING
TUBULAR SUPPORT STEEL
– TYPE S

ONE TUBE

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